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(54) Title: METHOD TO DETERMINE 3-D ELEMENTAL COMPOSITION AND STRUCTURE OF BIOLOGICAL AND ORGANIC MATERIALS VIA ATOM PROBE MICROSCOPY

(57) Abstract: Disclosed are methods to prepare a specimen for microanalysis, the specimens so prepared, and methods to analyze the specimens by atom probe microscopy. The specimens are prepared by embedding a specimen within an electrically conductive matrix to yield an embedded specimen; and then forming regions on the embedded specimen into shapes suitable for microanalysis by an atom probe.